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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,582	02/17/2006	Takashi Kikukawa	286321US0PCT	6498
22850 7590 02/26/2009 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			BLOUIN, MARK S	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
		2627		
		NOTIFICATION DATE	DELIVERY MODE	
			02/26/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)
	10/568,582	KIKUKAWA ET AL.
Office Action Summary	Examiner	Art Unit
	MARK BLOUIN	2627
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	C DATE OF THIS COMMUN R 1.136(a). In no event, however, may a riod will apply and will expire SIX (6) MO atute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) ■ Responsive to communication(s) filed on 2 2a) ■ This action is FINAL. 2b) ■ 3 3) ■ Since this application is in condition for allo closed in accordance with the practice under the condition of the condition of the condition is in condition.	This action is non-final. wance except for formal mat	•
Disposition of Claims		
4) ☑ Claim(s) 1-6 and 11-14 is/are pending in the 4a) Of the above claim(s) is/are with the 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 1-6 and 11-14 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	drawn from consideration.	
Application Papers		
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abeya rection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But * See the attached detailed Office action for a	ents have been received. ents have been received in a priority documents have been reau (PCT Rule 17.2(a)).	Application No n received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application

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Detailed Action

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-6 and 11-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shingai et al (USPub 2005/0041568) in view of Nishiuchi et al (US 2004/0223445).
- 3. Regarding Claim 1, Shingai et al shows (Figs. 1-6) an optical recording medium comprising: a substrate (11), a noble-metal oxide layer (12) provided on the substrate, a first dielectric layer (16) provided on a light-incidence plane side when viewed from the noble-metal layer and a second dielectric layer (13) provided on the side opposite to the light-incidence plane when viewed from the noble-metal oxide layer, the second dielectric layer containing ZnS or a mixture of ZnS and SiO2 as a main component [0048], wherein the proportion of ZnS to the sum of ZnS and SiO2 is set at a value from 60 mole % to 100 mole %, but does not show the noble metal as an oxide.

Nishiuchi et al shows [0078] the use of an oxide as well as several other materials to form a reproduction layer.

Shingai does not set forth the material combination of a noble metal oxide. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the noble metal layer of Shingai with the oxide of Nishiuchi et al through routine experimentation and optimization in the absence of criticality. More particularly, where the

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general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation. In re Swain et al, 33 CCPA (Patents) 1250, 156 F.2d 239 70 USPQ 412; Minnesota Mining and Mfg. Co. v Coe, 69 App. D.C. 217, 99 F. 2d 986, 38 USPQ 213; Allen etal. v Coe, 77 App. D.C. 324, 135 F. 2d 11, 57 USPQ 136.

The rationale is as follows: One of ordinary skill in the art would have been motivated to provide the noble metal layer of Shingai with the oxide of Nishiuchi et al since it would be an art equivalent engineering choice of materials producing the same results.

- 4. Regarding Claim 2, Shingai et al shows (Figs. 1-6) an optical recording medium, further comprising, on the side opposite to the light-incidence plane when viewed from the second dielectric layer (13), a light absorption layer (14) and a third dielectric layer (15) arranged in this order when viewed from the second dielectric layer.
- 5. Regarding Claim 3, Shingai et al shows (Figs. 1-6) an optical recording medium, further comprising a reflective layer (12) provided between the substrate and the third dielectric layer (15).
- 6. Regarding Claim 4, Shingai et al in view of Nishiuchi et al shows (Figs. 1-6), all the features described, supra, but does not show an optical recording medium, wherein the noblemetal oxide layer contains platinum oxide (PtOx).

Shingai does not set forth the material of Platinum. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the noble metal oxide layer of Shingai with the claimed materials through routine experimentation and optimization in the absence of criticality. More particularly, where the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable

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ranges by routine experimentation. In re Swain et al, 33 CCPA (Patents) 1250, 156 F.2d 239 70 USPQ 412; Minnesota Mining and Mfg. Co. v Coe, 69 App. D.C. 217, 99 F. 2d 986, 38 USPQ 213; Allen etal. v Coe, 77 App. D.C. 324, 135 F. 2d 11, 57 USPQ 136.

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The rationale is as follows: One of ordinary skill in the art would have been motivated to provide the noble metal oxide layer of Shingai with platinum since it is a substitution of noble metals and would provide the same effect.

- Regarding Claims 5,11, and 12, Shingai et al in view of Nishiuchi et al shows (Figs. 1-6) an optical recording medium, wherein the light absorption layer contains as a main component a material which can be represented by $(Sb_aTe_{l-a})_{l-b}$ MA_b (wherein MA is an element other than antimony (Sb) and tellurium (Te), 0 < a < 1 and $0 \le b < 1$), and besides which is different from an intermetallic compound represented by $\{(GeTe)_c(Sb_2Te_3)_{1-e}\}_dMB_{1-d}$ (wherein MB is an element other than antimony (Sb), tellurium (Te) and germanium (Ge), c is 1/3, 1/2 or 2/3, and $0 < d \le 1$) (see [0052]).
- 8. Regarding Claims 6,13, and 14, Shingai et al shows (Figs. 1-6) an optical recording medium, wherein a light-transmitting layer (18) having the light-incidence plane is further provided on the side opposite to the substrate (11) side when viewed from the first dielectric layer, the substrate is from 0.6 mm to 2.0 mm [0047] in thickness and the light-transmitting layer is from 10 μ m to 200 μ m in thickness [0047].

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Blouin whose telephone number is 571-272-7583. The examiner can normally be reached on M-F from 6:00 to 3:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Joe Feild, can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Mark Blouin/

Primary Examiner of Art Unit 2627

Mark Blouin Patent Examiner Art Unit 2627 February 4, 2009